

Cyclization in Cross-Linked Polymers,
by V. I. Irzhak.
RUSSIAN, per, Dok Ak Nauk SSSR. Phys Chem.,
Vol 201, No 6, December 1971,
pp 1382-1384.
CE

June 72

Rotational and Translational Diffusion
and Local Radical Concentrations in
Liquids and Polymers, by
A. L. Kovarskii.
RUSSIAN, per, Dok Ak Nauk SSSR. Phys Chem.,
Vol 201, No 6, December 1971,
pp 1385-1388.
CB

June 72

The Effect of Mass Transfer in the Gas
Phase on the Operation of a Fuel
Element, by N. S. Lidorenko.
RUSSIAN, per, Dok Ak Nauk SSSR, Phys Chem.,
Vol 201, No 6, December 1971,
pp 1389-1392.
CB

June 72

Reduction of Fermium to the Divalent
State in Aqueous Ethanolic Chloride
Solutions, by N. B. Mikheev.
RUSSIAN, per, Dok Ak Nauk SSSR. Phys Chem.,
Vol 201, No 6, December 1971,
pp 1393-1395.
CB

June 72

Change in Parameters of the EPR Signal
of Plastocyanin Under the Influence
of Some Denaturing Agents, by
R. M. Nalbandyan.
RUSSIAN, per, Dok Ak Nauk SSSR. Phys Chem.,
Vol 201, No 6, December 1971,
pp 1396-1398.
CB

June 72

The Effect of Small Concentrations of
Surfactants on the Kinetics of the
Evaporation of the Main Component,
by P. I. Ozhegov.
RUSSIAN, per, Dok Ak Nauk SSSR. Phys Chem.,
Vol 201, No 6, December 1971,
pp 1399-1401.
CB

. June 72

Relationship Between Normal and Tangential
Stresses and Reversible Deformation in
the Pre-Steady-State Stage of the
Deformation of Concentrated Solutions
of Polymers in the Range of High
Deformation Rates, by A. A. Trapeznikov.
RUSSIAN, per, Dok Ak Nauk SSSR. Phys Chem.,
Vol 201, No 6, December 1979,
pp 1402-1405.
CB

June 72

Conditions for the Appearance of
Polarographic Maxima of the Third
Kind, by A. N. Frumkin.
RUSSIAN, per, Dok Ak Nauk SSSR. Phys Chem.,
Vol 201, No 6, December 1971,
pp 1406-1409.
CB

June 72

The Heisenberg Model of Spin Exchange
and the Theory of Paramagnetic
Resonance in Trimeric Clusters, by
B. S. Tsukerblat.
RUSSIAN, per, Dok Ak Nauk SSSR. Phys Chem.,
Vol 201, No 6, December 1971,
pp 1410-1413.
CB

June 72

Multivariable Investigation of Reaction
Products of Mountain Cork and Lime
Under Autoclave Conditions, by
N. N. Kruglitskii.
RUSSIAN, per, Dok Ak Nauk SSSR,
Chem Tech., Vol 201, No 6, 1971,
pp 1414-1417.
CB

June 72

Self-Replicating Instability in a
Series of Cell Generations of the
Yeast *Schizosaccharomyces Pombe*, by
O. N. Kurennaya.
RUSSIAN, per, Dok Ak Nauk SSSR. Biol. Sci.,
Vol 201, No 6, December 1971,
pp 1469-1472.
CE

June 72

Chimera Structure of Carrot Inflor-
escences as an Indicator of the
Number of Initial Cells, by
N. D. Tarasenko.
RUSSIAN, per, Dok Ak Nauk SSSR. Biol Sci.,
Vol 201, No 6, December 1971,
pp 1473-1475.
GB

June 72

Genetic Characteristics of Lon-
Cultures, by V. D. Timakov.
RUSSIAN, per, Dok Ak Nauk SSSR. Biol Sci.,
Vol 201, No 6, December 1971,
pp 1476-1477.
GB

June 72

Experiment for Determination of the
Toxic Activity of Influenza Virus
as a Function of the Oxygen Con-
sumption Inhibition in the Virus -
Cell System, by B. L. Voitsekhovskii.
RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci.,
Vol 201, No 6, December 1971,
pp 1478-1480.
CB

June '72

Dark Conversion of Externally Intro-
duced Chlorophyll a to Chlorophyll b
in a Homogenate of Etiolated Corn
Seedlings, by A. A. Shiyk.
RUSSIAN, per, Dok Ak Nauk SSSR, Biophys.,
Vol 201, No 6, December 1971,
pp 1481-1484.
CE

July 72

Models of Various Forms of Pro-
tochlorophyll Pigments in Solid
Films Treated With δ -Aminolevulinic
Acid, by A. A. Krasnovskii.
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem.,
Vol 201, No 6, December 1971,
pp 1485-1489
CB

June 72

Electrochemical Reduction of ADF
at Neutral pH Values, by
A. I. Lebedeva.
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem.,
Vol 201, No 6, December 1971,
pp 1489-1492
CB

June 72

Regulatory Role of Ammonia in Reduction of Nitrogen and Acetylene by Extracts of Azotobacter vinelandii Cells, by N. P. L'vov.
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem.,
Vol 201, No 6, December 1971,
pp 1493-1495
CB

June 72

Principle of Marginotomy in the
Synthesis of Polynucleotides at
a Template, by A. M. Olovnikov.
RUSSIAN, per, Dok Ak Nauk SSSR. Biochem.,
Vol 201, No 6, December 1971,
pp 1496-1499
CB

June 72

Mycelium of Ustilago Maydis (DC) CDA
in Tissues of Pathological Overgrowths
in Blister Smut of Corn, by
I. V. Karatygin.
RUSSIAN, per, Dok Ak Nauk SSSR. Bot Sci.,
Vol 201, No 6, November-December 1971,
pp 1500-1503.
CB

June 72

Effects of Renin and Angiotensin on
Blood Clotting, by Yu. Ya. Rodionov.
RUSSIAN, per, Dok Ak Nauk SSSR. Biol Sci.,
Vol 201, No 6, December 1971,
pp 1504-1506.
CB

June 72

Behavior of the Axial Period of
Striated Muscle During Acetylcholine
Contracture, by N. V. Samosudova.
RUSSIAN, per, Dok Ak Nauk SSSR. Biol Sci.,
Vol 201, No 6, December 1971,
pp 1507-1508.
CB

June 72

Generalization of the Theory of Error Accumu-
lation, by G. A. Ulanov, I. Ya. Krichevskiy, 5 pp.
RUSSIAN, per, Doklady Akademiy Nauk SSSR, Moscow,
Vol 202, No 1, 1972, pp 56-58.
JPRS 55742

Apr 72

Optimal Control in Hierarchical Structures, by
Yu. N. Yatskin, 5 pp.
RUSSIAN, per, Doklady Akademii Nauk SSSR, Moscow,
Vol 202, no 1, 1972, pp 59-61.
JPRS 55742

Apr 72

N. L. Grigorov

Collective interactions of heavy nuclei
nucleons and high-energy cosmic rays. 5 pp
RUSSIAN, Doklady Akad. Nauk SSSR, Vol 202
No 1, 1972, pp 65-66
NASA TT F 14,409

A. M. Fridman

Collective oscillations of spherically
symmetric rotating mass systems. 9 pp.
RUSSIAN, Doklady Akad. Nauk SSSR, Vol 202,
No 1, 1972, pp 67-70
NASA TT F 14,413

oct 72

Paramagnetic Resonance of Nickel (II)
and Nickel (III) in $2\text{MgO} - 2\text{Al}_2\text{O}_3 -$
 SiO_2 Glass Matrix, by E. I. Abdreshitova.
RUSSIAN, per, Dok Ak. Nauk SSSR, Phys
Chem., Vol 202, No 1, Jan 1972,
pp 103-105.
CS

Aug 72

Influence of Surface Active Media on
the Free Surface Energy of Pyrographite,
by V. P. Elyutin.
RUSSIAN, per, Dok Ak Nauk SSSR, Phys
Chem., Vol 202, No 1, Jan 1972,
pp 106-108.
GB

Aug 72

Controlling the Type of Bonding of
Adsorbed Molecules by Altering the
Electronic State of the Semiconductor
Surface, by Yu. A. Zarif'yants.
RUSSIAN, per, Dok Ak Nauk SSSR. Phys
Chem., Vol 202, No 1, Jan 1972,
pp 109-112.
CB

Aug 72

Corrosion Cracking of Carbon Steels,
by G. V. Kerpenko.
RUSSIAN, per, Dok Ak Nauk SSSR. Khim
Chem., Vol 202, No 1, Jan 1972,
pp 113-116.
GB

Aug 72

An NMR Study of the State of Water in
Dispersions of Sodium and Lithium
Montmorillonite, by V. V. Mank.
RUSSIAN, per, Dok Ak Nauk SSSR, Phys
Chem., Vol 202, No 1, Jan 1972,
pp 117-119.
CB

Aug 72

Study of the Photochemical Methane and
Ethane Oxidation by the Radical
Trapping Method, by A. A. Mantashyan.
RUSSIAN, per, Dok Ak Nauk SSSR, Phys
Chem., Vol 202, No 1, Jan 1972,
pp 120-123.
GB

Aug 72

The Relationship Between Mean-Square
Amplitudes and Force Constants, by
L. S. Mayants.
RUSSIAN, per, Dok Ak Nauk SSSR, Phys
Chem., Vol 202, No 1, Jan 1972,
pp 124-127.
CB

Aug 72

On the Nature of the Radical Formed
During the Radiolysis of Glucosamine
in Frozen Aqueous Solutions, by
M. A. Radzhafeva.

RUSSIAN, per, Dok Ak Nauk SSSR, Khim.
Chem., Vol 202, No 1, Jan 1972,
pp 128-131.

CB

Aug 72

Neutron Activation Analysis Study of
Anomalous Water, by Vikt. I. Spitsyn.
RUSSIAN, per, Dok Ak Nauk SSSR. Khim.
Chem., Vol 202, No 1, Jan 1972,
pp 132-135.
CS

Aug 72

Study of the Vibrational Structure of
the Quasiline Emission Spectrum and
Electron-Vibrational Interactions in
the 9.10 - Anthraquinone Molecule, by
N. S. Strokech.

RUSSIAN, per, Dok Ak Nauk SSSR, Chem.
Chem., Vol 202, No 1, Jan 1972,
pp 136-139.

CS

Aug 72

The Electrical Conductivity of Liquid
Ammonia Under Pulse Radiation by
Fast Electrons, by G. I. Khalkin.
RUSSIAN, per, Dok Ak Nauk SSSR. Phys
Chem., Vol 202, No 1, Jan 1978,
pp 140-142.
CB

Aug 72

State of Water in Hydrosodalite According
to IR Spectroscopy Data, by
G. V. Tsitsishvili.
RUSSIAN, per, Dok Ak Nauk SSSR, Khim
Chem., Vol 202, No 1, Jan 1972,
pp 143-146.
05

Aug 72

Types of Glial Cells and Their Interrelations
With Neurosecretory Cells of the Supraoptic
Nucleus of White Mice, by Yu. I. Senchik.
RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci., Vol 202,
No 1, Jan 1972, pp 197-199.
CB

Oct 72

Adrenergic Innervation of the Internal Carotid
Arteries, by A. V. Borodulya.
RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci., Vol 202,
No 1, Jan 1972, pp 200-202.
CB

Oct 72

Sensory Innervation of the Small Intestine of
Human Fetuses, by Kh. T. Turdyev.
RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci., Vol 202,
No 1, Jan 1972, pp 203-204.
CB

Oct 72

Actinomycin-D Repression of the Ability of
Aurelia aurita L. Larvae to Adapt to Alterations
in Salinity, by V. Ya. Berger.
RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci., Vol 202,
No 1, Jan 1972, pp 205-207.
CB

Oct 72

Lipogenase Activity of the Mitochondria of
Irradiated Seedlings, by I. G. Borisova.
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem, Vol 202,
No 1, Jan 1972, pp 217-220.
CB

Oct 72

Abiogenic Formation of Porphin, Chlorin, and
Bacteriochlorin, by A. A. Krasnovskii.
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem., Vol 202,
No 1, Jan 1972, pp 221-224.

CB

NASA TTR-14,353- 8 pp

Oct 72

Effect of Ammonium Salts on the Isoenzymes
of Pea-Seedling Glutamate Dehydrogenase, by
V. L. Kretovich.
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem., Vol 202,
No 1, Jan 1972, pp 225-227.
CB

Oct 72

Participation of Cateic Acid and its Enzymic
Oxidation Products in Protective Reactions of
Potato Tubers Against *Phytophthora infestans*,
by L. V. Metlitskii.
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem, Vol 202,
No 1, Jan 1972, pp 228-231.
CB

Oct 72

Effect of Histones on the Release of Acid RNAase
From Rat-Brain Lysosomes, by G. A. Nechaeva.
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem., Vol 202,
No 1, Jan 1972, pp 232-235.
CB

Oct 72

Aggregation of Ovalbumin Molecules in Concentrated
Urea Solutions, by A. I. Shul'mina
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem., Vol 202,
No 1, Jan 1972, pp 236-239.
CB

Oct 72

Biology of Species of the Genus Tipulodina
Alex. (Diptera, Tipulidae) New to The Fauna of
the USSR, by N. P. Krivosheina.
RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci., Vol 202,
No 1, Jan 1972, pp 240-242.
CB

Oct 72

Dipterans as Gall-Formers on Fruit-Bodies of
Polypores, by R. M. Mamaev.
RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci., Vol 202,
No 1, Jan 1972, pp 243-244.
CB

Oct 72

Study of Contractile Function of Myocardium by
Method of Phase Coordinates, by N. M. Amosov.
RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci., Vol 202,
No 1, Jan 1972, pp 245-247.
CB

Oct 72

The Possible Formation of a Nonequilibrium
Catalyst Surface State Resulting From a
Catalytic Reaction, by G. K. Borekov.
RUSSIAN, per, Dok Ak Nauk SSSR, Phys
Chem., Vol 202, No 2, Jan 1972,
pp 371-373.
C3

Aug 72

Influence of the Hydrophilic Nature of
the Interphase Surface on the Relation
of the Polymerization Rate to the
Emulsifier Adsorption in Emulsion
Systems, by V. I. Eliseeva.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys
Chem., Vol 202, No 2, Jan 1972,
pp 374-376.

CB

Aug 72

NMR Study of the State of Water in a
Weakly Acidic KB-4F2 Cation Exchanger,
by V. V. Mank.

RUSSIAN, per, Dok Ak Nauk SSSR, Fiz
Chem., Vol 202, No 2, Jan 1972,
pp 377-379.
CB

Aug 72

Investigation of the Pressure Dependence of the Surface Tension of Liquids, by A. I. Rusanov.
RUSSIAN, per, Dok Ak Nauk SSSR, Phys Chem., Vol 202, No 2, Jan 1972, pp 380-383.
CB

Aug 72

The Derivation of Equations Giving the
Explicit Dependence of the Coordinates
of the Atoms in Molecules on Their
Structural Parameters and the Angles
of Internal Rotation, by Yu. V. Sorokin.
RUSSIAN, per, Dok Ak Nauk SSSR. Phys
Chem., Vol 202, No 2, Jan 1972,
pp 384-387.
CB

Aug 72

Radiochemical Hydrolysis of Radioactive
Cerium Oxalate, by V. I. Spitsyn.
RUSSIAN, per, Dok Ak Nauk SSSR. Phys
Chem., Vol 202, No 2, Jan 1972,
pp 388-390.
CB

Aug 72

The Role of the Medium in the Activation
of Dispersible Quartz (According to the
Increase in its Solubility in Water),
by L. I. Edel'man.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys
Chem., Vol 202, No 2, Jan 1972,
pp 391-394.
GB

Aug 72

Ultrastructure of Neurosecretory Fiber Endings
in the Posterior Hypophysis of White Mice Under
Prolonged Salt Load Conditions, by M. A. Belen'kii.
RUSSIAN, per, Dok Ak Nauk, SSSR, Biol Sci., Vol 202,
No 2, Jan 1972, pp 449-451.
CB

Oct 72

Character of Cell Division and Tissue Differentia-
tion (Intergeneric Wheat Hybrids), by
E. V. Ivanovskaya.
RUSSIAN, per, Dok Ak Nauk SSSR, Biol. Sci., Vol 202,
No 2, Jan 1972, pp 452-455.
CB

Oct 72

Influence of Alien Supplemental Pollination on
Variability in the Progeny of Barley Plants, by
N. V. Turbin.
RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci., Vol 202,
No 2, Jan 1972, pp 456-458.
CB

Oct 72

Retention of Enzymic Activity of α - Chymotrypsin
Following Cleavage of the Disulfide Bridge Linking
Chains B and C, by I. V. Berezin.

RUSSIAN, per, Dok Ak Nauk SSSR, Biochem., Vol 202,
No 2, Jan 1972, pp 463-466.

CB

Oct 72

Oxidative Phosphorylation in Isolated Rat Liver
Cell Nuclei and Nuclear Membranes, by
T. V. Bul'dyaeva.
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem, Vol 22,
No 2, Jan 1972, pp 467-470.
CB

Oct 72

Interaction of Apotransketolase With Analogs
of Thiamine Pyrophosphate, by G. A. Kochetov.
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem., Vol 202,
No 2, Jan 1972, pp 471-474.
CB

Oct 72

Investigation of the Adenosinetriphosphatase
Properties of *Strigomonas oncopelti* Flagella
and of Proteins Isolated From Them, by
M. V. Ostrovskaya.
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem, Vol 202,
No 2, Jan 1972, pp 475-478.
CB

Oct 72

Investigation of Nucleases Bound to Liver and
Spleen Histones, by I. F. Paskevich.
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem., Vol 202,
No 2, Jan 1972, pp 479-481.
CB

Oct 72

Preparation and Properties of a Homogeneous Major
Component of Leghemoglobin From the Root Nodules
of *Lupinus luteus* L, by Ya. V. Peive.
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem., Vol 202,
No 2, Jan 1972, pp 482-485.
CB

Oct 72

Comparator Function of the Hippocampus, by
O. S. Vinogradova.
RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci., Vol 202,
No 2, Jan 1972, pp 486-489.
CB

Oct 72

Location of Sensory Zones in Cerebral Cortex
of Dolphin, by V. E. Sokolov.
RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci., Vol 202,
No 2, Jan 1972, pp 490-493.
CB

Oct 72

Influence of Inhibitors of Protein on the
Development of Hyperpolarization of Neurons of the
Sensomotor Region of the Cortex, Induced by
Noradrenalin and Serotonin, by V. V. Frol'kis.
RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci., Vol 202,
No 1, Jan 1972, pp 494-495.
CB

Oct 72

Stable Changes in Frequency and Synchronism of
Cortical Neuron Population Discharges in Experi-
ments With Feedback, by N. N. Vasilevskiy,
N. B. Suvorov, 5 pp.
RUSSIAN, per, Doklady AN SSSR, Moscow, Vol 206,
No 2, 1972, pp 510-512.
JPRS 57802

Dec 72

Gravimetric Map of Australia, by N. P. Grushinskiy,
6 pp.
RUSSIAN, per, Doklady Akad Nauk SSSR, Vol 202, No 3,
1972, pp 580-582.
DMAAC-TC-1863

Sept 72

Reduction of Molecular Nitrogen With
Divalent Vanadium Compounds, by
N. T. Denisov.
RUSSIAN, per, Dok Ak Nauk SSSR, Phys
Chem., Vol 202, No 3, Jan 1971,
pp 623-624.
CB

Aug 72

Intensities and Electrooptical Parameters
in the Vibrational Spectra of Group
IV Element Tetrachlorides, by
V. S. Dernova.
RUSSIAN, per, Dok Ak Nauk SSSR, Phys
Chem., Vol 202, No 3, Jan 1972,
pp 625-628.
CB

Aug 72

Effect of the Solvent in the Oxidation
of Alkenylbenzenes Initiated by
-Radiation, by P. N. Komarov.
RUSSIAN, per, Dok Ak Nauk SSSR. Khim
Chem., Vol 202, No 3, Jan 1972,
pp 629-632.
CB

Aug 72

The Reactivity of Normal Fatty Acids
and Their Isomers, by T. A. Miskinova.
RUSSIAN, rer, Dok Ak Nauk SSSR, Phys
Chem., Vol 202, No 3, Jan 1972,
pp 623-634.
00

Aug 72

Studies on the "Anomalous" Copolymeriza-
tion from the Data on Preparative
Fractionation, by V. A. Myagchenkov.
RUSSIAN, per, Dok Ak Nauk SSSR, Phys
Chem., Vol 202, No 3, Jan 1972,
pp 635-638.
CB

Aug 72

Kinetics of Dissolution of Strontium
Sulfate Irradiated With High-Speed
Electrons, by T. N. Parkhaeva.
RUSSIAN, per, Dok Ak Nauk SSSR. Phys
Chem., Vol 202, No 3, Jan 1972,
pp 639-641.
CS

Aug 72

Mechanism of the Polymerization of
Methacrylonitrile Initiated With
Triethylphosphine, by F. Danogrets.
RUSSIAN, par, Dok Ak Nauk SSSR, Phys.
Chem., Vol 202, No 3, Jan 1972,
pp 642-645.
CB

Aug 72

Infrared Spectra of Carbon Monoxide
Chemisorbed on Iridium - Rhodium
Adsorbents, by N. P. Sokolova.
RUSSIAN, per, Dok Ak Nauk SSSR, Phys
Chem., Vol 202, No 3, Jan 1972,
pp 646-648.
63

Aug 72

Stalked Knobs on the Nuclear Envelope, by
L. P. Troitskaya.
RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci., Vol 202,
No 3, Jan 1972, pp 697-699.
CB

Oct 72